



SCOS - 2000 EVALUATION

ESOC 18 - 19 April 2000

P. ESTARIA



SCOS 2000 Evaluation

Introduction

History

- SCOS-2000 (version 0.2) has been evaluated on 3 - 5 November 99 by the RTA CWG as a *possible* candidate for a “framework” system under which to implement a *common* RTA system for the FIRST and Planck Instruments
- Since then, the Instrument groups have been considering an expanded scope for SCOS-2000 namely its utilisation as an EGSE-kernel
- “Requirements” on the system - to cover “missing” RTA functionalities and expected EGSE features - have been captured by PACS in a “*consolidated*” Delta URD (04/04/00)
 - Note: This Delta URD **cannot** be considered consolidated at present



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- As part of the overall evaluation process ESOC have provided:
 - a draft SCOS-2000 S/W licence agreement proposal
 - A SCOS-2000 Service and Support proposal
 - A description of existing EGSE elements available from other developments (PROBA)

Meeting objectives (See agenda)

- The objectives of the meeting are to explore and discuss all the SCOS-2000 related issues (technical, support, costs schedule, logistics, etc...) in order to provide to the PI groups all the elements required to assist their decision making process



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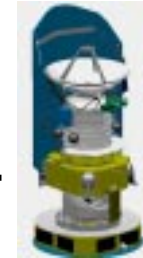
FIRST/Planck Project Position

- ESA (D/SCI) overall policy
 - EGSEs are provided by Industry as part of the spacecraft procurement contract (ESA/IPC(89)126)
 - No (minimum of) Agency's deliverable items to Industry - hands-off approach
 - Optimisation of the mission includes the ground segment in the overall system trade-off
 - Commonality/compatibility between Flight Control System and Check Out System shall be pursued within the overall Project constraints (also a goal for Rosetta and MEX)
- The FIRST/Planck Project supports (and has actively pursued with the instrument groups) the concept of commonality/compatibility between the instruments and between the various mission phases



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- The high level requirements supporting this approach are contained in the AIV specifications (part of the ITT) but no specific implementation is suggested
- Selection (or not) of SCOS-2000 as Instrument EGSE Kernel or in any other function is entirely a PI decision
- The FIRST/Planck Project cannot provide any technical support (manpower + responsibility issue). No technical expertise available within the Project Team
- The FIRST/Planck Project cannot supply any H/W or S/W elements which might be required in order to implement the Instrument EGSEs
- The FIRST/Planck Project cannot finance any of the the costs associated with the use of SCOS-2000 if selected by the PI groups (no financial resources + responsibility issue)



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This covers both:

- direct costs: cost of hardware, licences, specific developments (e.g. Delta URD), installations, maintenance/support, training, etc...
- indirect costs: via an increase of the MOC CaC
- The FIRST/Planck Project cannot accept any responsibility in case of problems with the selected system
- The FIRST/Planck Project (P. Estaria) has provided up to now overall coordination of the SCOS-2000 evaluation activities. The current phase is considered completed (termination of the RTA CWG). Any future coordination that might be required can no longer involve the FIRST/Planck Project.



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- Pragmatic implementation of commonality/compatibility should bring substantial overall benefits. These have not been quantified.